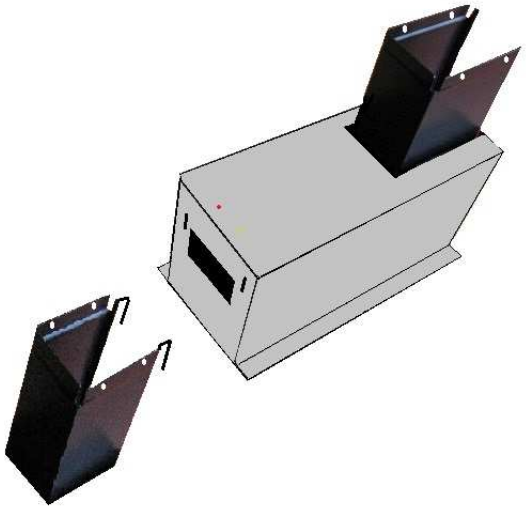
DOC. 397-R1-EN

EK20-IDMGZ24 USER MANUAL
PRELIMINARY DATA

EK20-IDMGZ24 (here named MGZ) is a device for **RFID CARD Production** applications.

Features:
- Operates with one-two-three frequencies (LF-HF-UHF) as your choice.
- Operates with the most popular TAGs:
  LF:Unique, Q5, T5577, Hitag, Titan ***HF:Mifare, Icode, Srix*** ***UHF: EPC-Gen2, 18000-6C***
- Connectable via USB.
- Card size 54×86mm thickness 0.3-2.0mm (adjustable by screw)
- Card box capacity：180PCS,0.80mm（extensible to 500）
- Speed of cards dispensing can be greater than 1 card per sec.(depends on ..)
- Recycle box capacity：25 cards（0.76mm）
- Complete of the MGZ24-SW. program freely downloadable from:
  www.zetanetweb.com/download/zetanet.htm



INDEX

1.0 MGZ24-SW FIRST INSTALL
2.0 HOW TO OPERATE WITH MGZ
3.0 HOW TO CREATE A NEW PROJECT
4.0 HOW TO OPEN AN EXISTING PROJECT
9.0 PROGRAMMING A TEXT ON TAGs
10.0 AVAILABLE MODELS
11.0 TECHNICAL SPEC
12.0 HOW TO UPGRADE THE FIRMWARE ON MGZ

2.0 MGZ24-SW FIRST INSTALL

The first install is very important because creates the correct environment need by the system.
So we have made a simplified procedure to start the first install.

INSTALL IDONE-R ON YOUR PC

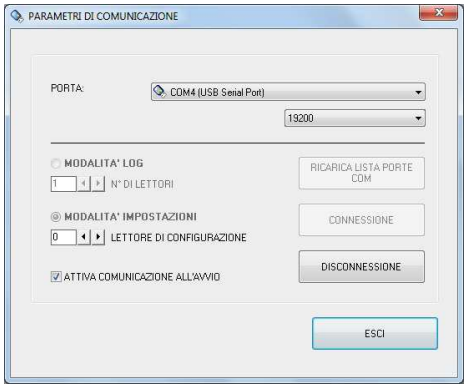
Connect to the web site: www.zetanetweb.com/download/zetanet.htm
Download the file "IDONE-R_5xx_Setup.exe".
Exec the file and follow the instructions to the end of install.
An icon will appear on your PC.

USB COM PORT INSTALL

Turn off the READER. Connect the USB cable and turn on the READER.
The PC begin to install the new device.
Wait for the completion of the install of the assigned COM PORT.

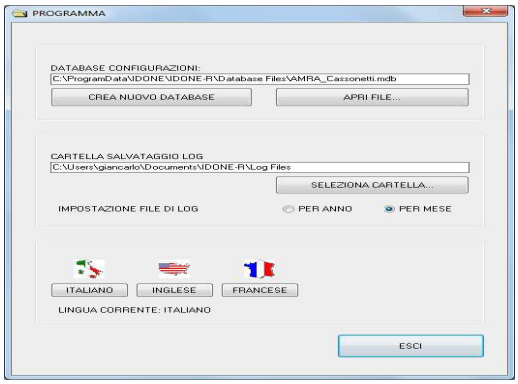
Click on the icon to launch IDONE-R.
Will appear a request. Press OK.

Open the window "COMMUNICATION PARAMETERS".
-The user can choose the LANGUAGE.
- Select the USB COM PORT. The bit rate is fixed at 19200 baud
- Connect the USB cable
-Turn on the WGZ24.
- Press "CONNECTION".



1.0 HOW TO OPERATE WITH MGZ PROGRAMMER

Open the window PROGRAM.
The user can choose between:
-CREATE A NEW PROJECT
-OPEN AN EXISTING PROJECT



1.1 HOW TO CREATE A NEW PROJECT

Insert the "PROJECT NAME".
We do suggest to detail this name so that during a next search will be easily reknown.
Ex. ABBA_ACCESS_Q5_1

ABBA	name of the CLIENT
ACCESS	name of the APPLICATION
Q5	TAG type
1	Release

The user choose the Tag type of the CARDS to be programmed.

Type LF	Type HF	Type UHF
Q5	MIFARE CLASSIC 1K	MONZA2
T5577	MIFARE 4K	MONZA3
HITAGS 256	MIFARE ULTRALIGHT	MONZA4D
HITAGS 2048	ICODE 1K	MONZA4U
HITAG1	ICODE 2K	MONZA4QT
	SRIX 512	MONZA4E
	SRIX 4K	MONZA5
		HIGGS2
		HIGGS3
		UCODE G2XM
		UCODE G2XL
		UCODE G2iL
		UCODE G2iL+

Click on the choose TAG.
Will appear the PROGRAMMING WINDOW for that type.

Q5 /5577
'Q5/T5577-SOKY/INOUT-SHORT/LONG-NOPASS/AOR/PASS-NOLOCK/LOCKCONF-NOLOCK/LOCKDATA-FROM DB-INCR-OFFSET-NBYTE--PASS0-1-2-3-SPARE-17'byte
'11 21 0 1 0 1 0 1 2 0 1 0 1 0/1 0/1 x x x x x x x
'CAMPO DATI (16bytes) (SHORT=5bytes) (LONG=17bytes) il 17simo byte alla fine stringa descriptor

HITAG HITAGS256 HITAGS2048
'HITAG -PAGE-NOPASS/PASS-NOLOCK/LOCK-FROM DB-INCREMENT-PASS0-1-2-3
'2-12-22 x 0 1 0 1 0/1 0/1 x x x x
'CAMPO DATI (16bytes)
'16 bytes 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16

MIFARE 1K MIFARE 4K
WORKING KEY: A B WRITE KEYS IN ALL SECTOR COPY KEY ALL

SECTOR	BLOCK0 ASC HEX DB LOCK	BLOCK1 ASC HEX DB LOCK	BLOCK2 ASC HEX DB LOCK	ACTUAL KEY	NEW KEY
00	0102030405060708090a0b0c0d0e0f	0102030405060708090a0b0c0d0e0f	0102030405060708090a0b0c0d0e0f	FFFFFFFFFFFF	112233445566
SECTOR	BLOCK4 ASC HEX DB LOCK	BLOCK5 ASC HEX DB LOCK	BLOCK6 ASC HEX DB LOCK	ACTUAL KEY	NEW KEY
01	0102030405060708090a0b0c0d0e0f	0102030405060708090a0b0c0d0e0f	0102030405060708090a0b0c0d0e0f	FFFFFFFFFFFF	112233445566

MIFARE ULTRALIGHT
MIFAREULTRA-PAGE-NOLOCK/LOCK-FROM DB-INCR-OFFSET-NBYTE-NFC
24H x 0 1 0/1 0/1 x x 0/1

ICODE 1K ICODE 2K
ICODE512-PAGE-NOPASS/PASS-NOLOCK/LOCK-FROM DB-INCREMENT-PASS0-1-2-3
05H x 0 1 0 1 0/1 0/1 x x x x
'CAMPO DATI (16bytes)
'16 bytes 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16

TYPE HF
SRIX 512 SRIX 4K
SRIX512-PAGE-NOPASS/PASS-NOLOCK/LOCK-FROM DB-INCREMENT-PASS0-1-2-3
06H x 0 1 0 1 0/1 0/1 x x x x

TYPE UHF
EPC12 EPC16 USER AREA
UHF12-EPCDati/TIDinEPC/USER-NOLOCK/LOCKEPC-NOLOCK/LOCKUSER-FROM DB-INCREMENT(EPC)-OFFSET(EPC)-NUMBYTES(EPC) (DA VERIFICARE!!!!)
07H 0 1 2 0 1 0 1 0/1 0/1 x x

COMMAND SEND
This command transfer the PROJECT data to the MGZ24 unit by USB.

Now the user can press START PROGRAMMING.
The unit verify if :
-Cards present in the box.
-

If all OK start the card programming.

COMANDO START PROGRAM send Type of TAG-NUM.DESCR-QUANTEL-QUANTEH
COMANDO STOP
COMANDO CONTINUE

6.0 AVAILABLE MODELS

EK20-IDMGZ24-LH Model with antenna LF+HF
EK20-IDMGZ24-LHU Model with antenna LF+HF+UHF

7.0 TECHNICAL SPEC

-Can achieve quantitative regulation of dispensing cards by using the way of Screwing the screws compared with the previous version. Users can handle and maintenance by themselves more convenient.

-Automatic generation of audible alarm in the case of insufficient contact or no contact of cards or card failures, the remind position can be adjusted flexibly.

-The design of the adding and detachable card storage box, fixed by tightening screw, separate with machine body, the card box capacity can change flexibly.

-Use of step motor driving, life of dispensing cards can reach two million times, it has wide range of temperature, and it can adapt to the changing environment.

-Using advanced dust control sensor, free from mechanical damage caused by dust.

Triple Frequency	LF 125KHz HF 13.56MHz UHF 868MHz (910MHz)
USB connection	19200 bits per second 8-N-1
Acoustic warning	Buzzer
Card supported	Size 54×86mm thickness 0.3-2.0mm (adjustable by screw)
Working voltage	24VDC (Compatible DC12V) maximum current：2.0A Max/24V
Motor	The service life of the motor: over 2 ×106 dispense /collect cards
Tank capacity	180PCS,0.80mm（extensible to 500）
Recycle capacity	25 cards（0.76mm）
Programming speed	Tip 1 card per sec
Operating temperature	-20′C to +60′C
Relative humidity	0～90% RH (no condensing)
Dimensions Weight	232x222x90.5mm (Max)

8.0 HOW TO UPGRADE THE FIRMWARE ON THE PROGRAMMER

To upgrade the FIRMWARE :

- MGZ turn off.
- Connect the USB cable.
- Turn on the READER.
- Wait for:

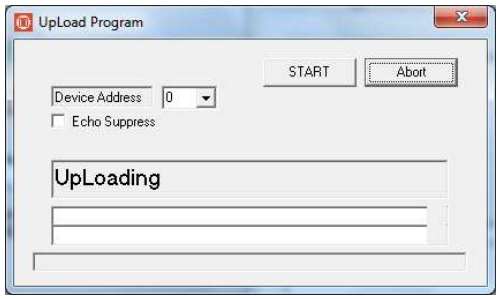
USB Connesso
Operare dal PC

- Launch the program EK20-UPLOADER that you find in the IDMGZ-CD folder.
- Set the COM PORT and the bit rate(19200).
- Press UPLOAD PROGRAM. Will appear the window RISORSE DEL PC.
- Select the file IDMGZxxxx.BIN
- Set the address of the connected READER.
- Press START and wait the end of programming (Upload OK).
- On the READER will appear:

USB Upload BV-5
Wait……

- At the end turn off the READER.

IMPORTANT: Avoid to operate on the PC during the programming.



INOUT RFID s.r.l Via Milano,14/H 20064-Gorgonzola (ITALY)
Phone:+39 02.95138.139 Fax:+39 02.95.158.694
Email: info@inoutsrl.it Web: www.inoutsrl.it